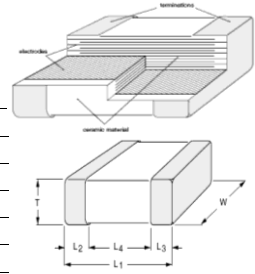


MULTILAYER CERAMIC CHIP CAPACITORS - MLCC SERIES (SMD)晶片電容

▲ DIMENSION:

0201(0603), 0402(1005), 0603(1608), 0805(2012), 1206(3216), 1210(3225), 1808(4520), 1812(4532) : Inch(mm)



TYPE:Inch(mm)	L1 (mm)	W (mm)	T (Min/Max)mm	L2/L3 (Min/Max)mm	L4 (mm)
O201(0603)	0.6±0.03	0.3±0.03	0.30/0.33	0.10/0.20	0.20
O402(1005)	1.0±0.05	0.5±0.05	0.45/0.55	0.15/0.30	0.40
O603(1608)	1.6±0.10	0.8±0.07	0.73/0.87	0.20/0.60	0.40
O805(2012)	2.0±0.10	1.25±0.10	0.50/1.35	0.25/0.75	0.55
1206(3216)	3.2±0.15	1.6±0.15	0.50/1.35	0.25/0.75	1.40
1210(3225)	3.2±0.20	2.5±0.20	0.50/1.80	0.25/0.75	1.40
1808(4520)	4.5±0.20	2.5±0.20	0.50/1.80	0.25/0.75	2.20
1812(4532)	4.5±0.20	2.5±0.20	0.50/1.80	0.25/0.75	2.20

▲ NPO-WORKING VOLTAGE:A(6.3V),B(10V),C(16V),D(25V),E(50V),G(100V),I(200V),J(250V),P(500V),Q(1000V),R(2000V),S(3000V)

CAPACITANCE / CAP CODE	O402	O603	O805	1206	1210	1808	1812
0.47pf / R47	E	E,G	E	E			
0.56pf / R56	E	E	E	E			
0.68pf / R68	E	E	E	E			
0.82pf / R82	E	E	E	E			
1pf / 1R0	E	E	E	E			
1.2pf / 1R2	E	E	E	E			
1.5pf / 1R5	E	E	E	E,Q,R			
1.8pf / 1R8	E	E	E	E,Q,R		Q,R,S	
2.2pf / 2R2	E	E	E	E,Q,R		Q,R,S	
2.7pf / 2R7	E	E	E	E,Q,R		Q,R,S	
3.3pf / 3R3	E	E	E	E,Q,R		Q,R,S	
3.9pf / 3R9	E	E	E	E,Q,R		Q,R,S	
4.7pf / 4R7	E	E	E	E,Q,R		Q,R,S	
5.6pf / 5R6	E	E	E	E,Q,R		Q,R,S	
6.8pf / 6R8	E	E	E	E,Q,R		Q,R,S	
8.2pf / 8R2	E	E	E	E,Q,R		Q,R,S	
10pf / 100	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
12pf / 120	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
15pf / 150	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
18pf / 180	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
22pf / 220	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
27pf / 270	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
33pf / 330	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
39pf / 390	E	E,G	E,G,I	E,G,I,P,Q,R	Q,R	Q,R,S	Q,R,S
47pf / 470	E	E,G	E,G,I	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
56pf / 560	E	E,G	E,G,I	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
68pf / 680	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
82pf / 820	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
100pf / 101	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
120pf / 121	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
150pf / 151	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
180pf / 181	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
220pf / 221	E	E,G	E,G	E,G,I,P,Q,R	E,P,Q,R	Q,R,S	Q,R,S
270pf / 271	E,C	E,G	E,G	E,G,I,P,Q	E,P,Q	Q,R,S	Q,R,S
330pf / 331	E,C	E,G	E,G	E,G,I,P,Q	E,P,Q	E,Q,R	E,Q,R,S
390pf / 391	E,C	E,G	E,G	E,G,I,P,Q	E,P,Q	E,Q,R	E,Q,R,S
470pf / 471	E,C	E,G	E,G	E,G,I,P,Q	E,P,Q	E,Q,R	E,Q,R
560pf / 561	B	E,G	E,G	E,G,I,P	E,P	E,Q,R	E,Q,R
680pf / 681	B	E,G	E,G	E,G,I,P	E,P	E,Q,R	E,Q,R
820pf / 821	B	E,D	E,G	E,G,I,P	E,P	E,Q	E,Q,R
1000pf / 102	B	E,D	E,G	E,G,I,P	E,P	E,Q	E,Q,R
1.2nf / 122		E,D	E,G	E,G,I	E,P	E	E,Q
1.5nf / 152		E,D	E,G	E,G,I	E,P	E	E,Q
1.8nf / 182		E,D,C	E,G	E,G	E,I	E	E
2.2nf / 222		E,D,C	E,G	E,G	E,I	E	E,P
2.7nf / 272		E,D,C	E,G	E,G	E,I	E	E,P
3.3nf / 332		E,DC	E,D	E,G	E,I	E	E,P
3.9nf / 392		E,DC	E,D	E,G	E	E	E,I
4.7nf / 472			E,D	E,G	E	E	E,I
5.6nf / 562			E,D	E,G	E	E	E,I
6.8nf / 682			E,D	E,G	E	E	E
8.2nf / 822			E,D	E,D	E,G	E	E
10nf / 103			E,D	E,D	E,G	E	E
12nf / 123				E,D	E,D	E	E,G
15nf / 153				E,D	E,D	E	E,G
18nf / 183				E,D	E,D	E	E,G
22nf / 223				E,D	E,D	E	E,G
27nf / 273				E,D	E,D	E	E,G
39nf / 393				C	C		
47nf / 473				C	C		

▲ X7R-WORKING VOLTAGE

VOLTAGE CODE: A(6.3V),B(10V),C(16V),D(25V),E(50V),G(100V),I(200V),J(250V),P(500V),Q(1000V),R(2000V),S(3000V)

CAPACITANCE / CAP CODE	O402	O603	O805	1206	1210	1808	1812
100pf / 101	B,C,D,E	B,C,D,E,G	B,C,D,E	B,C,D,E	B,C,D,E		
120pf / 121	B,C,D,E	B,C,D,E,G	B,C,D,E	B,C,D,E	B,C,D,E		
150pf / 151	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	
180pf / 181	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	
220pf / 221	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	
270pf / 271	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	Q,R
330pf / 331	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	Q,R
390pf / 391	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	Q,R
470pf / 471	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	Q,R
560pf / 561	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R,S	Q,R
680pf / 681	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R,S	Q,R
820pf / 821	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R,S	Q,R
1000pf / 102	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R,S	G,I,J,P,Q,R
1.2nf / 122	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q,R	B,C,D,E	Q,R	G,I,J,P,Q,R
1.5nf / 152	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q,R	G,I,J,P,Q,R
1.8nf / 182	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q,R	G,I,J,P,Q,R
2.2nf / 222	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q,R	G,I,J,P,Q,R
2.7nf / 272	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q	G,I,J,P,Q,R
3.3nf / 332	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q	G,I,J,P,Q,R
3.9nf / 392	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q	G,I,J,P,Q,R
4.7nf / 472	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P,Q	B,C,D,E	Q	G,I,J,P,Q,R
5.6nf / 562	B,C,D	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P	B,C,D,E	Q	G,I,J,P,Q
6.8nf / 682	B,C,D	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P	B,C,D,E	Q	G,I,J,P,Q
8.2nf / 822	B,C,D	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E,G,I,P	B,C,D,E	Q	G,I,J,P,Q
10nf / 0.01uf / 103	B,C,D	B,C,D,E,G	B,C,D,E,G	B,C,D,E,G,I,P	B,C,D,E	Q	G,I,J,P,Q
12nf / 123	C,D	B,C,D,E,G	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E		G,I,J,P,Q
15nf / 153	C,D	B,C,D,E,G	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E		G,I,J,P
18nf / 183	C,D	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E		G,I,J,P
22nf / 223	C,D	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E		G,I,J,P
27nf / 273	B,C,D	B,C,D,E	B,C,D,E,G	B,C,D,E,G,I	B,C,D,E		G,I,J,P
33nf / 333	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
39nf / 393	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
47nf / 473	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
56nf / 563	B,C	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
68nf / 683	B,C	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
82nf / 823	B,C	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
100nf / 0.1uf / 104	B,C	B,C,D,E	B,C,D,E	B,C,D,E,G	B,C,D,E		G,I,J,P
120nf / 124	C	C,D	B,C,D,E	B,C,D,E	B,C,D,E		G,I,J
150nf / 154	C	C,D	B,C,D,E	B,C,D,E	B,C,D,E		G,I,J
180nf / 184	C	C,D	B,C,D,E	B,C,D,E	B,C,D,E		G,I,J
220nf / 224	C	B,C,D	D,E	B,C,D,E	B,C,D,E		G,I,J
270nf / 274		C,D	D,E	B,C,D,E	B,C,D,E		G
330nf / 334		C,D	D,E	B,C,D,E	B,C,D,E		G
390nf / 394		C,D	D,E	B,C,D,E	B,C,D,E		G
470nf / 474		C,D	C,D,E	B,C,D,E	B,C,D,E		G
560nf / 564		C,D	C,D,E	B,C,D,E	B,C,D,E		G
680nf / 684		C,D	B,C,D,E	B,C,D,E	B,C,D,E		G
820nf / 824		C,D	B,C,D,E	B,C,D,E	B,C,D,E		G
1uf / 105		B,C,D	B,C,D,E	B,C,D,E	B,C,D,E		
2.2uf / 225		B	B,C,D,E	B,C,D,E	B,C,D,E		
4.7uf / 475			B,C,D	B,C,D,E	B,C,D,E		
10uf / 106			B,C	B,C,D	B,C,D		
22uf / 226				B,C	B,C		

▲ X5R-WORKING VOLTAGE

VOLTAGE CODE: A(6.3V),B(10V),C(16V),D(25V)

CAPACITANCE / CAP CODE	O201	O402	O603	O805	1206
27nf / 273		C			
33nf / 333		C			
39nf / 393		C			
47nf / 473		C			
56nf / 563		B,C			
68nf / 683		B,C			
82nf / 823		B,C			
100nf / 0.1uf / 104		B,C,D			
120nf / 124		A,B			
150nf / 154		A,B			
180nf / 184		A,B			
220nf / 224		A,B	D		
270nf / 274		A,B	B,D		
330nf / 334		A,B	B,C,D		
390nf / 394		A,B	B,C,D		
470nf / 474		A,B	B,C,D		
560nf / 564		A,B	A,B,C,D		
680nf / 684		A,B	A,B,C,D		
820nf / 824		A,B	A,B,C,D		
1000nf/ 1uf / 105		A,B	A,B,C,D	B	
2.2uf / 225		A	A,B,C	A,B,C,D	C,D
3.3uf / 335			X	A,B,C,D	C,D
4.7uf / 475			A,B	A,B,C,D	B,C,D
10uf / 106			A	A,B,C	A,B,C,D
22uf / 226				A	A,B
47uf / 476					A,B

▲ Y5V-WORKING VOLTAGE

VOLTAGE CODE: A(6.3V),B(10V),C(16V),D(25V)

CAPACITANCE / CAP CODE	O201	O402	O603	O805	1206	1210	1812
10nf / 0.01uf/ 103		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
12nf / 123		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
15nf / 153		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
18nf / 183		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
22nf / 223		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
27nf / 273		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
33nf / 333		B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E		
39nf / 393		B,C,D	B,C,D,E	B,C,D,E	B,C,D,E		
47nf / 473		B,C,D	B,C,D,E	B,C,D,E	B,C,D,E		
56nf / 563		B,C	B,C,D,E	B,C,D,E	B,C,D,E		
68nf / 683		B,C	B,C,D,E	B,C,D,E	B,C,D,E		
82nf / 823		B,C	B,C,D,E	B,C,D,E	B,C,D,E		
100nf / 0.1uf / 104		C,D	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
120nf / 124		B	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
150nf / 154		B	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
180nf / 184		B	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
220nf / 224		B	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
270nf / 274		B,C	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
330nf / 334		B,C	B,C,D	B,C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
390nf / 394		B,C	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
470nf / 474		B,C	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
560nf / 564		B,C	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
680nf / 684		B,C	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
820nf / 824		B	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
1000nf/ 1uf / 105		A,B	B,C,D	C,D,E	B,C,D,E	B,C,D,E	B,C,D,E
1.5uf / 155			B,C	C,D,E	B,C,D,E	B,C,D	B,C,D,E
2.2uf / 225			B,C	C,D,E	B,C,D,E	B,C,D	B,C,D,E
3.3uf / 335			X	B,C,D	B,C,D,E	B,C,D	B,C,D,E
4.7uf / 475			A,B	B,C,D	B,C,D,E	B,C,D	B,C,D,E
10uf / 106				B,C	B,C,D	B,C	B,C,D
22uf / 226				A	B,C	B	
47uf / 476					A	B	

ORDER : MLCC 0603 100P 50V NPO

PS: NPO一般做 5% 但可篩成1%,2%. X7R 一般做10% 但可篩成5%.Y5V一般做 +80%~-20% 但可篩成±20%